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### C. Amendments to the Drawings:

The attached sheets of drawings includes changes to Figures 1 and 2. These sheets replace the original sheets. Figures 1 and 2 have been amended to include sequence identifiers, which were previously omitted.

Attachement: Replacement Sheets for Figures 1 and 2; and Annotated Sheets Showing Changes.

### D. Remarks:

In response to the Notification of Missing Requirements Under 35 U.S.C. § 371 in the United States Designated/Elected Office, Applicants submit herewith an initial computer readable form (CRF) copy of the "Sequence Listing," and an initial paper copy of the "Sequence Listing." A statement that the content of the paper and computer readable copies are the same and include no new matter, in compliance with 37 C.F.R. §§ 1.821 – 1.825, is also included.

The specification has been amended to reflect the insertion of the sequence listing. The specification, as well as Figures 1 and 2, has also been amended to insert sequence identifiers where appropriate. No new matter has been added.

### **CONCLUSION**

On the basis of the foregoing amendments and remarks, Applicants respectfully submit that the instant application is in condition for allowance. If there are any questions regarding this submission, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

No fees are believed due with this submission. However, the Commissioner is hereby authorized to charge any fees that may be due, or credit any overpayment, to Deposit Account No. 50-0311, Reference No. 24348-501NATL.

Respectfully submitted,

Dated: November 29, 2004

Vor R. Elrifi, Reg. No. 39,529

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### Figure 1

## Amino Acid Sequence Alignment of ORF H10638

Haemophilus Influenzae H10638
Pasteurella multocida
Escherichia coli
Vibrio cholerae
Buchnera aphidicola
Pseudomonas aeruginosa
Xylella fastidiosa

-MKNYHD-IVLALAGVCQSAKLVHQLATESRADSETFLTALNSLFITQPQ
-MANYYD-ITLALAGVCQAAKLVQQFAHEGQADQAAFETSLNTLLQIYPE
MAKNYYD-ITLALAGICQSARLVQQLAHQGHCDADALHVSLNSIIDMNPS
MANAIYD-RTIAFAGICQAVALVQQVAKNGYCDSDAFETSLKAITCTNPS
-MKKIHL-ITLSLAGICQSAHLVQQLAYSGKCDSNAFSICLKSILEINPT
-MSDPRQ-QLIALGAVFESAALVDKLARTGQISEAPLGCMLGSLLARNPA
-MNALIDNRVLALAGVVQALQQVRQIAETGQSETSAVRTAINSVLRIDAE

::

RIEDVFGGEVRHLKLGLETLIHQLNAQGD----QNLTRYWLSLLALEGKLSKNSDAKQTLGNRISRLKEQEIHYARDSE-TMLSIMANIYSDIIS DTLAVFGGKAQNLKLGLETLLEQMHGTG-----SDLSRYWISLLALESKLNKDPHAKAELARRIQYLPTQLEHYDLLDE-QMLSTLASIYVDVIS STLAVFGGSEANLRVGLETLLGVLNASSRQGLNAELTRYTLSLMVLERKLSSAKGALDTLGNRINGLQRQLEHFDLQSE-TLMSAMAAIYVDVIS NTLEVFG-HESQLKLGLECLVKGIDSTPS--G-SEITRYLISLMALERKLSGRRDAMSQLGDRIQMIERQLDHFDLFDD-QMISNLASIYLDVIS SFIAIYGNHEKNLIIGLEILLSTLTFSSFSYSYIELIKYISNMMIIEKKLKKSRTAIYSLKNKISVIS-SEYYLNYNIK-NLTRKLGELYLEIIS STLDVYGGDSLNLRDGFKALASALERKPGS-LQREPLRYALAMLTLERQLDKRGDMLDLIGQRLDQVEQQVQHFGLVHE-NVIASFASIYQDTLS SPBAVYG-RIRDLTQGLQLLHDYFGNQLR---DQLLPRLALAVLQLERRFIRDTSIVAAVSAGITQAAHQVEQTGDSAHPEVLSTLGALYANTIS :: \*. ::

SEQ ID NO:54 SEQ ID NO:55 SEQ ID NO:58 SEQ ID NO:53 SEQ ID NO:56 SEQ ID NO:57 SEQ ID NO:59 PLGPRIQVTGSPAVLQSPQVQAKVRATLLAGIRAAVLWHQVGGGRLQLMFSRNRLTTQAKQILAHLTPEL SLGSRIVIKGIKDFLQDHQIQEKIRCLLFSGIRAIVLWKQYGGNQLQLIYFRYFIIKKAKKILYHLKDAT PLGKKIQVTGSTLYLQQLAMHHRIRACLLAGIRSAVLWRQVGGTKWQVLFSRRKIIAMAKQIYSSL----TFRQRIQVHGDMRHLQVSSNAARIRALLLAGIRSARLWRQLGGSRWQMVFSRRRLLNELYPLLRG----PLGKKIHILGSPDYLRQELVQNKIRAVLLAGIRSAVLWKQMGGTKWQILFFRRKLLATAKQIYSSIY---PIGPRIQVTGTPAVLQQTANQHKVRALLLSGIRCAVLWRQVGGRRRHLIFGRKKMIEQAQILLLAR----HLRPRIIVQGNPHYLGQAGVVAEIRAMLLAALRSAVLWRQLNGNLLDFMLAKRAMAAATERALR----

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Figure 2

# Homology Search of the N-terminus (amino acids 3-26)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 ID NO:8 2 ID NO:10 2 ID NO:11 3 ID NO:11
Ogs Ogs Ogs Ogs Ogs	O O O O O O O O O O O O O O O O O O O
A G V C Q S A K L V H Q L A A G V C Q A A K L V Q Q F A A G I C Q S A R L V Q Q L A A G I C Q A V A L V Q Q L A A G I C Q S A H L V Q Q L A A G I C Q S A H L V Q Q L A G A V F E S A A L V D K L A A G V Q A L Q Q V R Q I A	I G I C A A V F L L Q Q Y V. A D L C M A A F N A A F N F D G V C T Y V K G V Q Q Y L A G L C Q V A R A G D I S S A G L C T A A Q M V F V T H
NYYDIVLAL NYYDITLAL NYYDITLAL AIYDRTIAF KIHLITLSL DPRQQLIAL LIDNRVLAL	N L P P I V L A V N Y F I V N L A L T A F D F N K M L R A I L I P L A L N L A L L L L L L L L L L L L L L
Haemophilus influenzae Pasteurella multocida Escherichia coli Vibrio cholerae Buchnera aphidicola Pseudomonas aeruginosa Xylella fastidiosa	Rhizobium loti (protl) Human NK-2 RECEPTOR Chlamydia pneumoniae Rhizobium loti (prot2) NprB Bac. Subtilis

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